	Application No.	Applicant(s)
Notice of Allowability	10/601,215	AGGARWAL, CHARU C.
	Examiner	Art Unit	
	John H Le	2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.

2. ☒ The allowed claim(s) is/are *1-24*.

3. ☒ The drawings filed on *20 June 2003* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

Reasons for Allowance

1.   Claims 1-24 are allowed.

2.   The following is an examiner's statement of reasons for allowance:

In combination with other limitations of the claims, the cited prior arts fails to teach the

steps of creating wavelet decomposed segments of the at least one training time series

data set; discretizing the wavelet decomposed segments of the at least one training

time series data set; determining one or more frequent patterns in the discretized

wavelet decomposed segments of the at least one training time series data set;

determining rules from the one or more frequent patterns in the discretized wavelet

decomposed segments; and classifying one or more frequent patterns in the at least

one test time series data set according to the rules, as recited in claim(s) 1, 12, and 23.

U.S. Patent No. 6,735,550 discloses a system, method, and software products to

classify a feature in time series data. The systems include a processing system and an

interface where the interface receives the time series data. The method is for operating

a processing system. The software product includes a storage system that stores

application software that directs a processing system. The processing system is

configured to: process the time series data with a plurality of membership functions to

generate a plurality of hypersurfaces, process the hypersurfaces to generate a

composite hypersurface, process the composite hypersurface to identify clusters, and

process the clusters to classify the feature. '550 fails to specify the steps of creating

wavelet decomposed segments of the at least one training time series data set;

discretizing the wavelet decomposed segments of the at least one training time series

data set; determining one or more frequent patterns in the discretized wavelet

decomposed segments of the at least one training time series data set; determining

rules from the one or more frequent patterns in the discretized wavelet decomposed

segments; and classifying one or more frequent patterns in the at least one test time

series data set according to the rules, as now recited in claims 1, 12, and 23 of the

present invention.

U.S. Patent No. 5,848,193 discloses a computer vision system having improved

means for characterizing the parameters of edge segments of an unknown object is

disclosed. The unknown object is transformed by a digital camera into an image and

transformed by a wavelet projection transform so as to decompose the unknown objects

into their constituent multi-scale edge segment features and provide recognition of the

unknown object by relating their constituent edge features to each other. '193 fails to

specify the steps of creating wavelet decomposed segments of the at least one training

time series data set; discretizing the wavelet decomposed segments of the at least one

training time series data set; determining one or more frequent patterns in the

discretized wavelet decomposed segments of the at least one training time series data

set; determining rules from the one or more frequent patterns in the discretized wavelet

decomposed segments; and classifying one or more frequent patterns in the at least

one test time series data set according to the rules, as now recited in claims 1, 12, and

23 of the present invention.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Contact Information

3.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John H. Le whose telephone number is 571-272-2275.

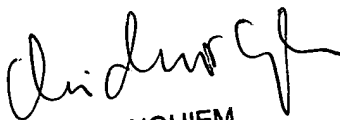The examiner can normally be reached on 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John E Barlow can be reached on 571-272-2269. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

MICHAEL NGHIEM
PRIMARY EXAMINER

Patent Examiner-Group 2863

November 6, 2004